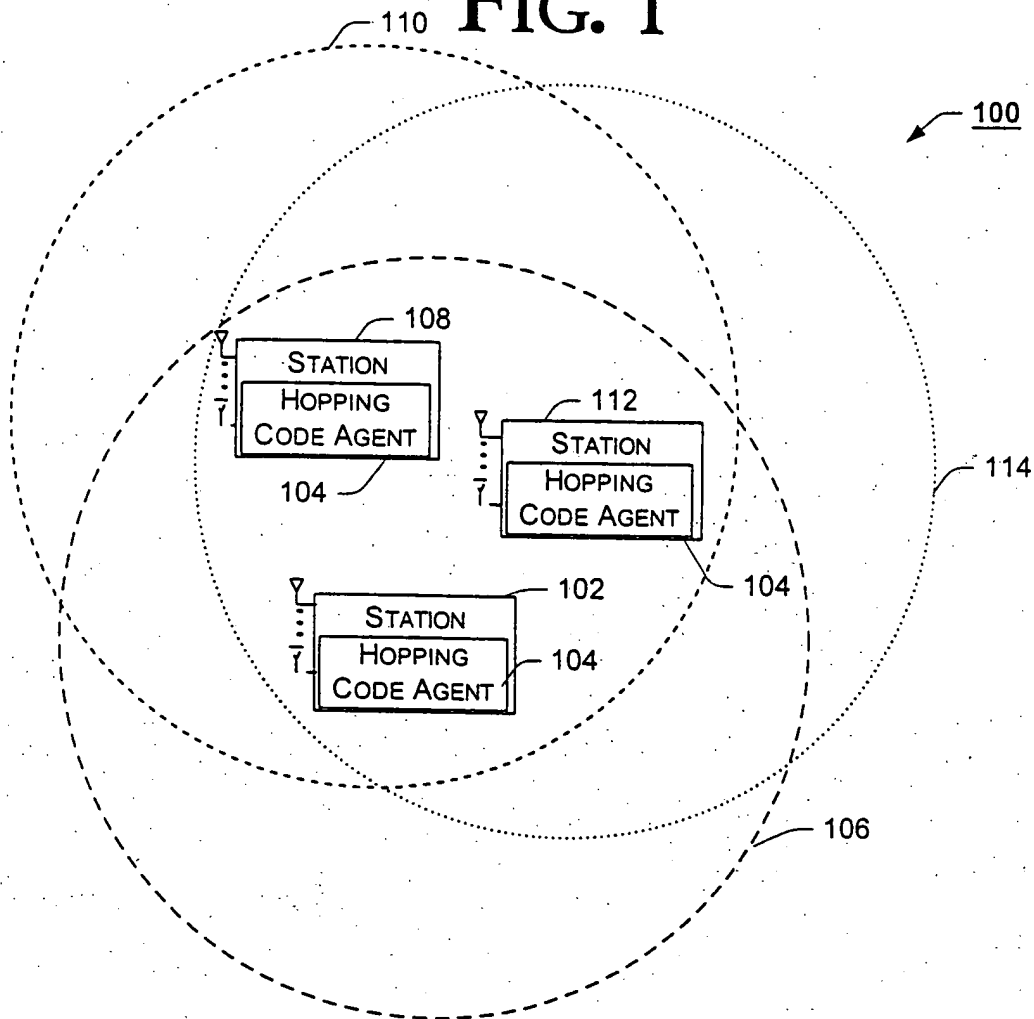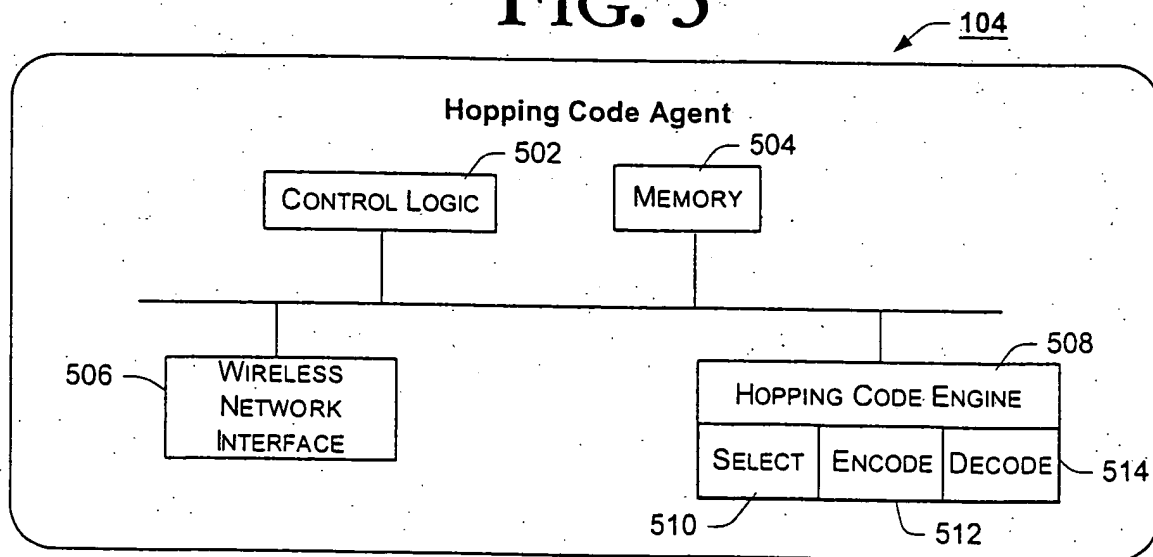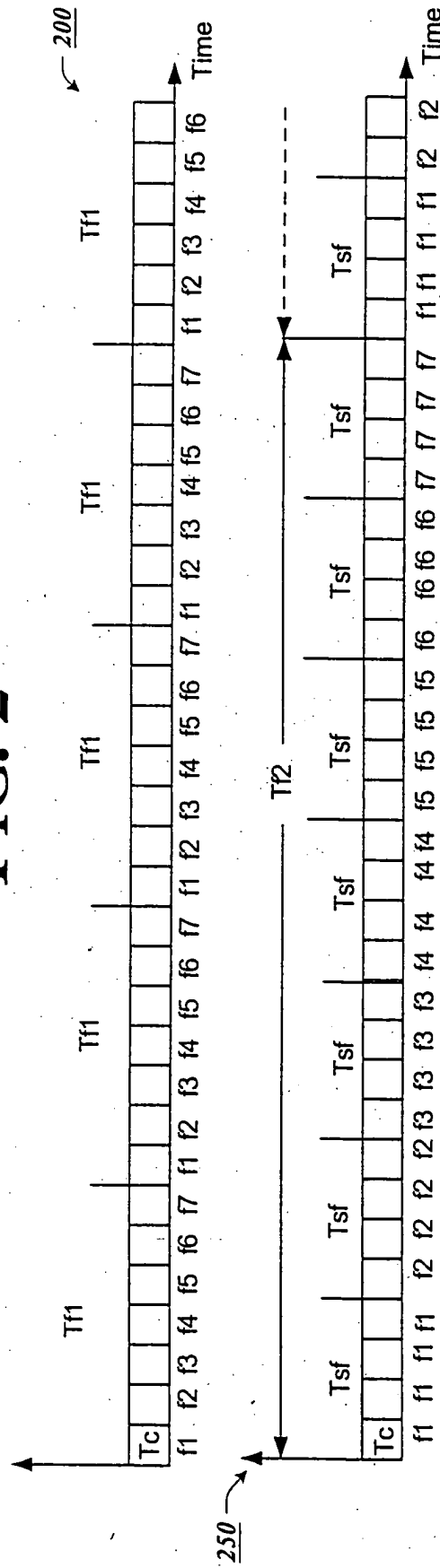# FIG. 1

FIG. 5
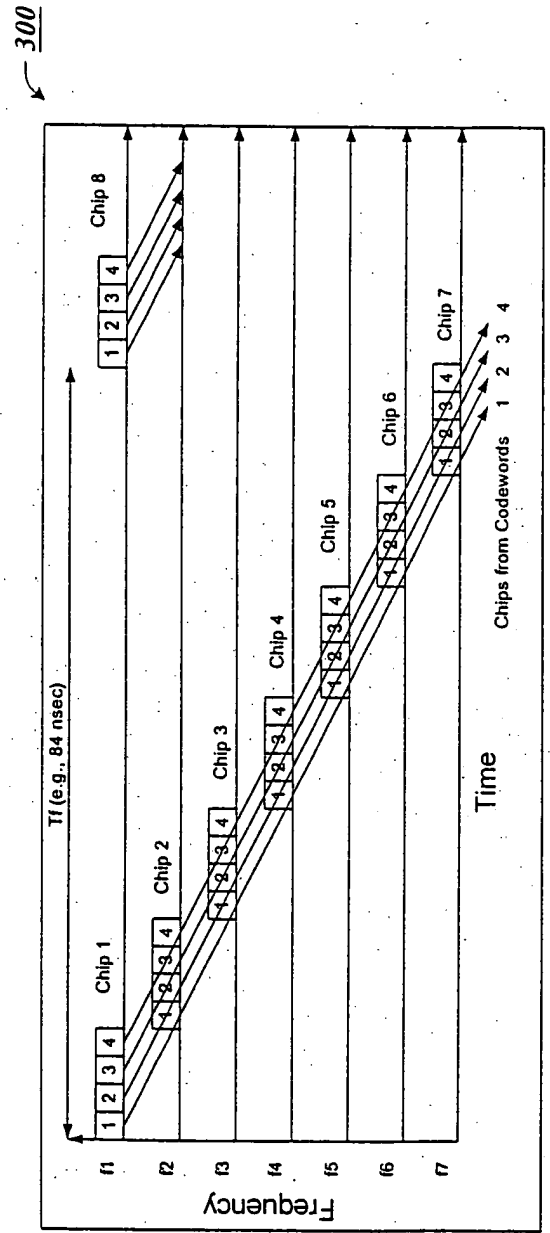
FIG. 2
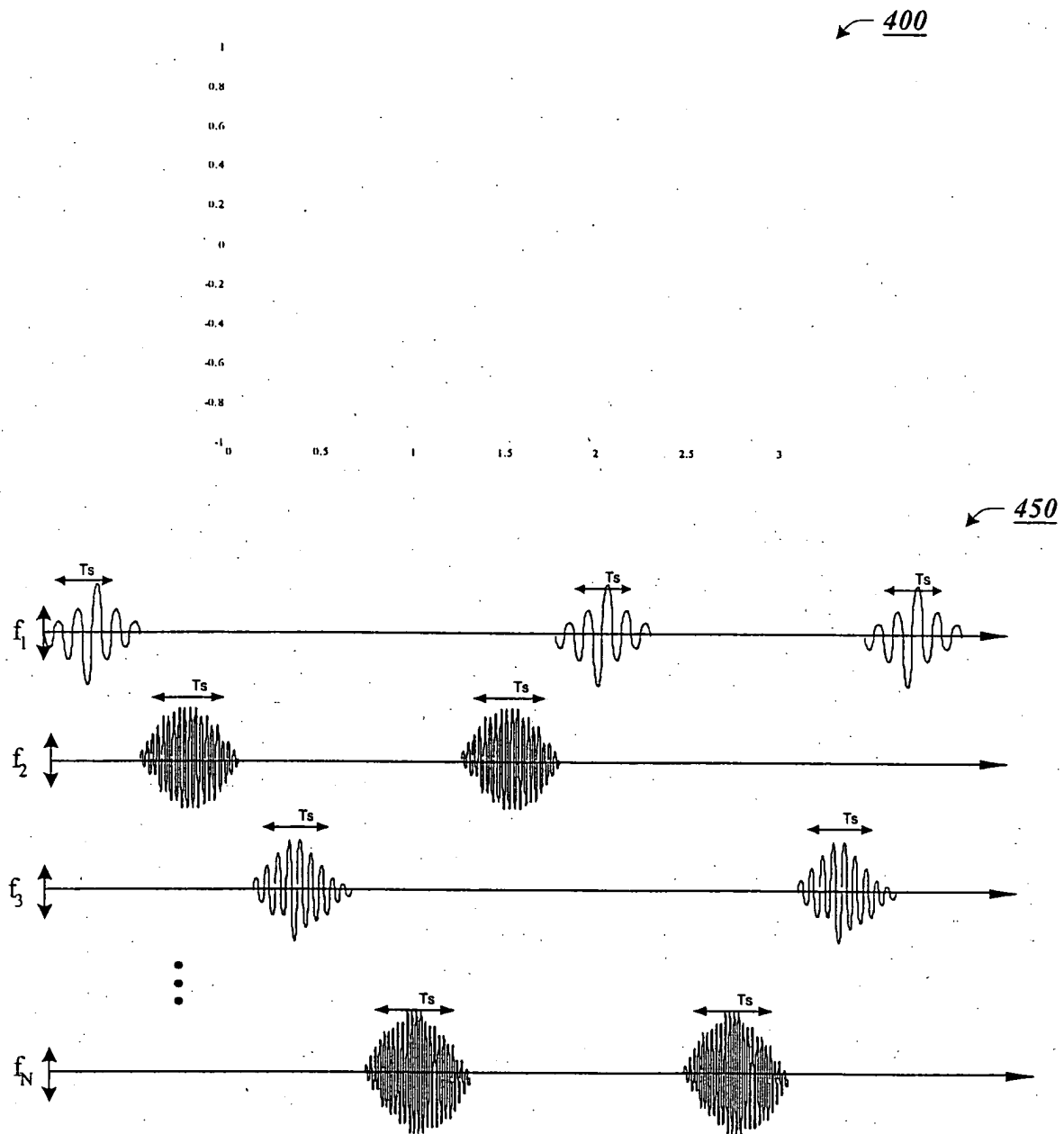

Tc = chip time (e.g., ~ 3 nsec (~700 MHz BW))
Tf1 = T-F code frame time for length 1 extension (e.g., ~ 21 nsec)
Tf2 = T-F code frame time for length 4 extension (e.g., ~ 84 nsec)
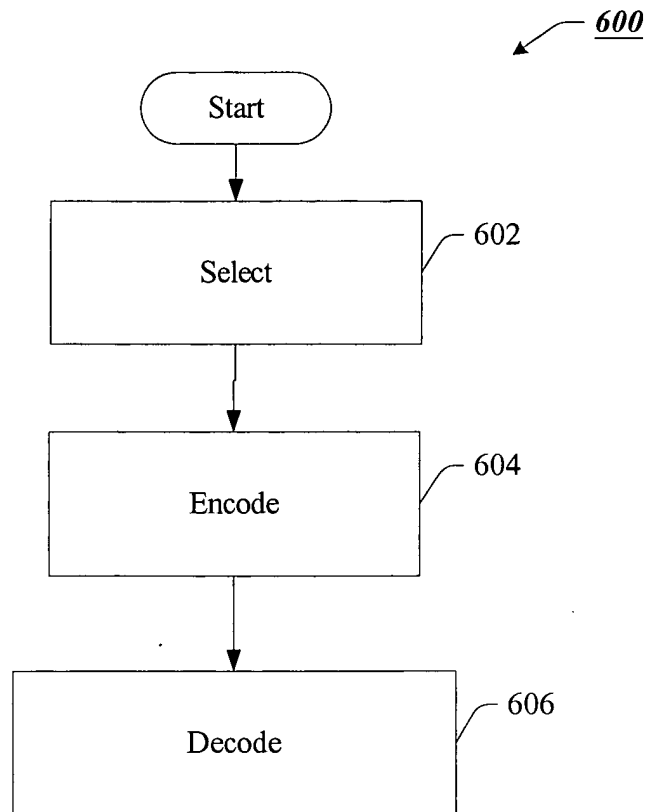Tsf = sub-frame time (e.g., ~ 12 nsec (~700 MHz BW))

FIG 3

FIG. 4

400

450

FIG. 6

600

```
   ┌─────────┐
   │  Start  │
   └────┬────┘
        │
        ▼
┌────────────────┐
│                │
│     Select     │──── 602
│                │
└────────┬───────┘
         │
         ▼
┌────────────────┐
│                │
│     Encode     │──── 604
│                │
└────────┬───────┘
         │
         ▼
┌────────────────┐
│                │
│     Decode     │──── 606
│                │
└────────────────┘
```

FIG. 7

700

┌──────────────────────────────┐
│   STORAGE MEDIUM   │
│   ┌──────────────────┐ ─ 702│
│   │   │   │
│   │ CONTENT TO IMPLEMENT   │
│   │ HOPPING CODE AGENT   │
│   │   │   │
│   └──────────────────┘   │
└──────────────────────────────┘